Work Order October-27-11 2:			;	*756	362*						Page 1
Revision ID:	0407-667-205		,	Accept	*N900	1 040	100)* s	Setup Start	1 7	S1*
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110	Pick Kit			0.00	<u>—————————————————————————————————————</u>)			/ ¬	_	~ 2
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120				0.00							
120	BENDIN	G MACHINE - C	CROSSTUBES							7/2	120
CNC Bend 1		Memo		0.00		MD)				7	/ - 8
CNC Delta 100 Bender	r	1-Bend tube a Folio 21	s per Dwg D407-667-2	245 using CNC bender prog	ram 407 Aft and		JU	/			•

D407-667-205/75662

	WORK ORDER CH	ANGES				
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Work Order ID 75662 *75662* Page 2 October-27-11 2:46:05 PM D407-667-205 Accept *N900040100* · Item ID: Setup Start **Revision ID:** Item Name: Crosstube Aft Start Qty: 1.00 27/10/2011 **Start Date: Cust Item ID: Required Date:** 11/11/2011 **Req'd Qty:** 1.00 **Customer:** Reference: Run **Tooling: Approvals:** Process Plan: Date: Date: Stop QC: ____ Date: SPC (Y/N): Date: Sequence ID/ Tool ID Tool # Plan Accept Reject Reject Operation Set Up/ Insp. Qty Qty Number Stamp **Work Center ID Description Run Hours** Code QC15- Crosstube Dimensional Check 130 *130*

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Quality Control

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Work Order ID 75662 *75662* Page 3 October-27-11 2:46:05 PM Accept Item ID: D407-667-205 *N900040100* Setup Start **Revision ID: Item Name:** Crosstube Aft **Start Date:** 27/10/2011 Start Oty: 1.00 **Cust Item ID: Req'd Qty:** 1.00 **Required Date:** 11/11/2011 **Customer:** Reference: Run Start Process Plan: Date: Tooling: Date: **Approvals:** Stop Date: SPC (Y/N): Date: Reject **Tool ID** Tool # Plan Reject Accept Insp. Sequence ID/ Operation Set Up/ Code Qty **Qty** Number Stamp **Work Center ID Description Run Hours** 0.00 140 Crosstubes *140* 0.00 Crosstubes Memo 1-Drill pilot holes in tube using drill Jig DT8583 & DT8584 as per Dwg D407-Crosstubes 667-245. Drill all (3) top holes. 2-Drill and Ream all holes in tube to finish size using drill Jig DT8583 & DT8584 as per Dwg D407-667-245Check dimensions between holes on all four sides. 3-Flip tube and switch drilling Jigs from right to left, left to right. Locate Jigs off existing holes using "T" pins. 4-Drill pilot holes using drill Jig DT8583 & DT8584 as per Dwg D407-667-245. Drill only the top (2) holes. 5-Drill & ream the top (2) holes to finish size using drill Jig DT8583 & DT8584 as per Dwg D407-667-245 6-Drill Aft rivet holes using drill Jig DT8789 as per Dwg D407-667-245. Note: Aft side has 3x top holes.

9- Scribe tube to identify on the inner chamfer in the cuff D# and B#

only the top (3) holes.

compensate for paint.

10-Deburr & Inspect for surface damage. Repair damage within limits as per

7-Drill Fwd river holes using drill Jig DT8789 as per Dwg D407-667-245. Drill

8-C'sink holes as per Dwg D407-667-245. Allow rivet to sit below surface to

T

12-2-28

	WORK ORDER CHANG	ES				
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Item ID: Revision ID: Item Name:	D407-667-20 Crosstube Aft				Accept	*N900	040	100	ገ*	Setup	Start Stop		S1* S2*
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Approvals:		in:			Tooling: SPC (Y/N):		ate:			Run	Start Stop	*N *N	R1* R2*
Sequence ID/ Work Center II	D	Operation Description Dwg D407	-667-245		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Rej Qty		Reject Number	Insp. Stamp
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150 HandFXtube	sstubes	Memo			0.00					-			
*160 *160* QC Quality Control	1	903- Inspect Part Finis Memo	h		0.00 Salu	3 (0)							
170 *170* QC Quality Control		QC5- Inspect part comp	oleteness to step	on W/O	0.00	عامال			(H)	/			

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Work Order ID 75662 *75662* Page 5 October-27-11 2:46:05 PM Accept *N900040100* D407-667-205 Setup Start · Item ID: **Revision ID:** Crosstube Aft Item Name: 27/10/2011 Start Oty: 1.00 **Start Date: Cust Item ID: Required Date:** 11/11/2011 **Req'd Qty:** 1.00 **Customer:** Reference: Run **Tooling:** Process Plan: Date:____ Date: Approvals: Stop QC: ____ Date: SPC (Y/N): Date: **Tool ID** Tool # Plan Reject Sequence ID/ Operation Set Up/ Accept Reject Insp. **Work Center ID** Description Code **Qty** Qty Number Stamp **Run Hours** Outsource process - NDT per QSI038 4.1 0.00 180 *180* 0.00 Outsource2 Memo Liquid Penetrant Inspection as per QSI 0380 Issue P/O/___LPI as per ASTM 1417 Level 2 Attach copy of NDT results to work order Outsource process - NDT 190 0.00 Packaging *190* 0.00 Packaging Memo Ensure copy of NDT results attached to work order. Packaging 200 QC5- Inspect part completeness to step on W/O 0.00 52103/15 QC Memo

Quality Control

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Part No: 407-667-755 PAR #: Fault Category: 1000 Gest 1000 NCR: Yes No DQA: 1203/29

Resolution: le work Disposition: le work QA: N/C Closed: Date: 12/3/29

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		Description of NC		Corrective Action Section B	Verification	Approval	Approval	
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12/03/05	# 190	tuhe has inspection found at wat inspection Q.c. Pouss.	12.63.65 Bryn	Me ALIDIL AS PER QUY-005 Ne ALIDIL AS PER QUY-005	TW 1232 TW 123 Sal3/2	7 7/03/65	nos. vs 05/15/2	Sleglos
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Work Order ID 75662 *75662* Page 6 October-27-11 2:46:05 PM Accept " Item ID: D407-667-205 *N900040100* Setup Start **Revision ID:** Crosstube Aft Item Name: Start Qty: 1.00 27/10/2011 **Start Date: Cust Item ID:** Req'd Qty: 1.00 **Required Date:** 11/11/2011 **Customer:** Reference: Run Date: Tooling: Date: Approvals: Process Plan: Stop Date: SPC (Y/N): OC: Date: Set Up/ Tool ID Tool # Plan Reject Reject Sequence ID/ Operation Accept Insp. **Work Center ID** Code Qty **Qty** Number Stamp **Description Run Hours** 0.00 210 SprayPaint 12-3-7 *210* SprayPaint 0.00 Memo **Spray Painting** ***Mask underside of crosstube as shown*** 1-Prime inside and outside crosstube as per DEO D407-667-245 and QSI 005 4.2 2-Paint outside crosstube with White Imron as per QSI 005 4.2 PRIME: Start Time: 7:20 Fininsh Time: 8:20 AS 12-3-6 Start Time: 8 ! 00 AR 17-3-7 Finish Time: 9:00 QC14- Inspect Spray Paint 0.00 220 Memo

Then, Wrap in plastic bag to protect from scratches

Quality Control

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Work Orde		662		*756	362*							Page 7
Item ID: Revision ID: Item Name:	D407-667-20 Crosstube Aft			Accept	*N900) 040	100)*	Setup	Start Stop	*N:	S1*
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Approvals:		n:	Date:	Tooling: SPC (Y/N):		Date:		1		Start Stop	*N *N	R1* R2*
Sequence ID/ Work Center II)	Operation Description		Set Up/ Run Hours	Tool ID	Tool#	Plan Code	Accept Qty	Reje Qty		Reject Number	Insp. Stamp
230 Crosstubes Crosstubes		up. A/R Prosea 2- Lightly so with 41058 v 3-Install supp D407-667-24 A/R Sco	port with Scotch-Weld DP 45 using installattion jig D tch-Weld DP460 Batch:	0.00 407-667-245. Top holes s 7 - a 320 grit sand paper and 460 and install clamps as T9025. Torque clampsa	d clean the area			A		-	3-	21
240 * ?40 *		QC5- Inspect part comple	eteness to step on W/O	0.00				w//	1	1	03	22 ()

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Work Order ID 75662 *75662* Page 8 October-27-11 2:46:05 PM Accept D407-667-205 *N900040100* Setup Start · Item ID: **Revision ID:** Item Name: Crosstube Aft 27/10/2011 Start Qty: 1.00 **Cust Item ID: Start Date:** Req'd Qty: 1.00 **Required Date:** 11/11/2011 **Customer:** Reference: Run Process Plan: **Tooling:** Date: Date: Approvals: Date: SPC (Y/N): Date: QC: **Tool ID** Tool # Plan Accept Reject Reject Set Up/ Insp. Sequence ID/ **Operation** Qty Qty Number Stamp Work Center ID Description Code **Run Hours** 0.00 Pick Kit 250 *250* Packaging 0.00 Memo Packaging QC4-100% Inspect kits for completeness 0.00 260 *260* 0.00 Memo Quality Control 0.00 270 Packaging 0.00 Packaging Memo Identify and in kanban rack Packaging Location: 53

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	Work Order ID 75662 October-27-11 2:46:05 PM		*75662*				Page 9
Item ID: Revision ID: Item Name:	D407-667-20 Crosstube Aft			Accept	*N90004010)በ*	Setup Start *NS1* Stop *NS2*
Start Date: Required Date: Reference:	27/10/2011 : 11/11/2011	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item ID: Customer:		
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Sequence ID/ Work Center II 280 *280* QC Quality Control	D	Operation Description QC21- Final Inspection Memo	- Work Order Release	Set Up/ Run Hours 0.00	Tool ID Tool # Pla Coo	-	pt Reject Reject Insp. Qty Number Stamp

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Work Order ID: 75662

75662

Parent Item: D407-667-205

Parent Item Name: Crosstube Aft

D407-667-205

Start Date: 27/10/2011

Required Date: 11/11/2011

Page 1

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev:C 05.09.02 Add holes for compatibility with Bell SkidtubesKJ/JLM

IPP Rev:D Added Magnobond, Rubber Cushion & Clamps

07-02-19

JLM

****CHANGE TO CHG 005 - IF USING D2894-1 B35578 OR GREATER**** IPP Rev:E 08-05-22 add comment in seq. 6 and QC15 and QC5 DD verified

by:EC

IPP Rev:F 08-06-12 add comment in seq. 24 DD verified by:EC

IPP Rev:G 08-08-19 revE as per dwg DD verified by:EC

IPP Rev H 09.01.06 ECN 08-562 EC verified by:DD IPP Rev:I 10.04.07 revise route seq. in bom DD verified by:JLM IPP Rev J 11.04.26

removed abrasion strip ecn 11-551 EC verified

by:DD

IPP REV:K

11.10.03 DEO D407-667-245-F-2 DD verf:EC

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Status Issued
D407-667-205TRN		Manufactured	No	R7514	15	110	Each	0.0000	(1)	1	JW	12-02-28
D407-667 Crosstube Turning Detail	7-205TF	N		0731					**			
AN960JD516	NAS1149D0563J	Purchased	No			230	Each	0.0000	18	18		
AN960.1F)516								**	p	1118614	
Washer D2873-043		Manufactured	No			230	Each	20.0000	2	2		
D2873-04 Nut Plate Assembly	43	iviandiaotaroa							**		AS I	2-3-14

Location	Loc Qty	Loc Code	
LG	. 2		
72644	2		
LG052 79395	18		ね
73605	18		

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Work Order ID: 75662		*7	5662	*						
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D2873-045	Manufactured	No			230	Each	13.0000	2	2	
D2873-045 Nut Plate Assembly								**		AS 12-3-14
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D2894-1	Manufactured	No			230	Each	5.0000	1	1	
D2894-1							•	**		Al 12-3-21
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Page 3

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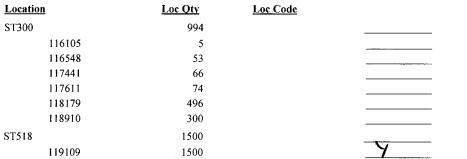
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	MS21920-25							**	~~	AL 12-3-21
(Clamp(per MIL-DTL-8783C)			120475					3	
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Part No:	PAR #:	_ Fault Category:	NCR: Yes No	DQA:	Date:	
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NCR:		\	WORK ORD	ER NON-CONFORMANC	CE (NCR)			
		Description of NC	·	Corrective Action Section B		Verification	Approval	Approval
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
		•						
				,				

DART AEROSPACE LTD	Work Order:	75662
Description: Crosstube High Aft (407)	Part Number:	D407-667-205
Inspection Dwg: D407-667-245 Rev: F		Page 1 of 1

Min

Max

Required Dimension

Trequired Difficulation	191111	IVICA	
Height	23.39	23.65	•
1/2 Span			
Angle	54		
Total Span	91.58		
.703 - 3.979	<u></u>		
5.170		4.6%	
2.091		7.078	
1.866	ļ.	1.895	
	İ		23.430
	į		23.930
3.3	į		c211
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	. ¢		40
2124	38 532	, A	3
46.090		45.980°	
	 11		
	- 42.02" -		
	Height 1/2 Span Angle Total Span .703 1 3.979 S.17	Height 23.39 1/2 Span 45.79 Angle 54 Total Span 91.58 .703 1 3.979 S.170 2.091 1.866	Height 23.39 23.65 1/2 Span 45.79 46.05 Angle 54 56 Total Span 91.58 92.100 .703 \(^2\) 3.979 5.170 7.076 1.886 38 32 45.980

5 me	A >	5.1%	crushi	ري) ا	38 PAS	ses.
sine	₹ 2	4.6%	chushi	0	32 PA	->5e,

QC15 Inspection	8
Date	17/07/28

Rev	Date	Change	Revised by	Approved
Α	07.02.06	New Issue	KJ/JM	
В	09.06.22	Dwg Rev updated	KJ	
С	11.08.22	Dimensions updated	KJ 1/	
D	11.09.30	Dimensions updated	KJ CX	R

	WORK ORDER CH	IANGES				
STEP	PROCEDURE CHANGE	Ву	By Date		Approval Chief Eng / Prod Mgr	Approval QC Inspector
	STEP		STEP PROCEDURE CHANGE By			STEP PROCEDURE CHANGE By Date Qty Chief Eng /

Part No:	PAR #: Fault Category:	NCR: Yes No DQA:	_ Date:
Resolution:	Disposition:	QA: N/C Closed:	Date:

NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification Approval	Approval			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Sign & Date		Section C	Chief Eng	QC Inspector		
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l te m	QTY		
	-245	PART NUMBER	DESCRIPTION
1	х	D407-667-245	CROSSTUBE ASSEMBLY (407 HIGH AFT)
2	1	D6011-115	CROSSTUBE
3	2	D2856-400-773	ABRASION STRIP
4	2	D2873-043	NUT PLATE
5	2	D2873-045	NUT PLATE
6	1	D2894-1	SUPPORT
7	2	D3190-1	CHAFING SHIELD
8	2	D3595-063-430	RUBBER CUSHION
9	14	MS20601AD4W8	RIVET (OR NAS9302B-4-8)
10	4	MS21920-22	CLAMP
11	2	MS21920-25	CLAMP (OR MS21920-24)
12	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947- 100, TYPE II, CLASS 2 ADHESIVE)

GENERAL NOTES:

D

1) MATERIAL: MANUFACTURED FROM D6011-115

FINISHED LENGTH = 112.91±0.020

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2

3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.

UNITS: INCHES UNLESS OTHERWISE NOTED.

BREAK SHARP EDGES: 0.005 TO 0.010 MAX.
IDENTIFICATION: SCRIBE DART PART NUMBER "D407-667-245" AND BATCH NUMBER ON

INSIDE OF CUFF USING VIBRATING STYLUS.

WEIGHT: 27.7 lbs

PART IS SYMMETRIC ABOUT CENTERLINE.

RUN-OFF PART, BLEND OUT EDGE LONGITUDINALLY, TRANSITION SHOULD BE SMOOTH.

10) BEND PROGRESSIVELY WITH A MINIMUM OF 6 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.

11) LIQUID PENETRANT INSPECT OUTSIDE SURFACE OF CROSSTUBE PER QSI 038.

12) INSTALL D2894-1 CENTER SUPPORT USING A 0.03* TO 0.06* THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.

13) INSTALL MS21920-25 CLAMPS WITH D'3595-063-430 RUBBER CUSHIONS TO SECURE D2894-1 SUPPORT ON TOP SIDE OF THE CROSSTUBE. ENSURE CLAMPS ARE OPPOSITE CROSSTUBE

NOTE: MS21920-24 CLAMPS CAN BE USED TO ACCOMMODATE VARYING DIAMETERS.

ENSURE THERE IS A MINIMUM OF 1.5 THREADS IN SAFETY ON THE NUTS.

14) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS UP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTIAL GRIND MARKS ARE UNACCEPTABLE.

15) INSTALL D2856 400-773 ABRASION STRIP WITH A 0.13 (REF) GAP ON BOTTOM SIDE OF

CROSSTUBE, PER QSI 035.

16) INSTALL C3190-1 CHAFING SHIELDS SO THAT OVERLAP IS ON BOTTOM SIDE OF CROSSTUBE OPPOSITE D2894-1 SUPPORT.

17) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.

SHOP COPY R. TRNTO ENGINEERING TINCONTROLLED COPY SUBJECT TO AMENDMENT WITHOUT NOTICE WORK ORDER MUJ

11110/24

@DEÓ ATTACHED

F	REFORMAT NOTES TO NEW STANDARDS (ZN B8-1); RELOCATED FLAG # 6 (ZN A8-3) PER NCR 210; REMOVED REF. & ADD TOLERANCES (ZN C6-3, C4-3 & D2-3)	RF	08.11.06
E ·	8.02 AND 8.53 WERE 8.40 AND 8.90 (ZN D5-2); REORGANIZED VIEWS AND REFORMATED DRAWING TO CURRENT STANDARDS. REASONS: CLAMPS MOVED 0.375 TOWARD CL TO ELIMINATE INTERFERENCE WITH AIRCRAFT MOUNTS. REFERENCE: PAR#08-21 AND ECN#1225	МВ	08.07.24
D	ADD VIEW FOR OEM SKID HOLES, ROTATE ORIENTATION OF CLAMPS SECTION F-F, REMOVE -851 ABRASION STRIP, ADD MAGNOBOND 6398, ADD CUSHION	PH	07.02.07
С	ADD HOLES AND NUT PLATES FOR COMPATIBILITY WITH BHT/AA SKIDTUBES	PH	05.07.26
В	ADD CHAFING SHIELD	CP	03.05.21
Α	NEW ISSUE	CP	02.05.13
REV.	DESCRIPTION	BY	DATE

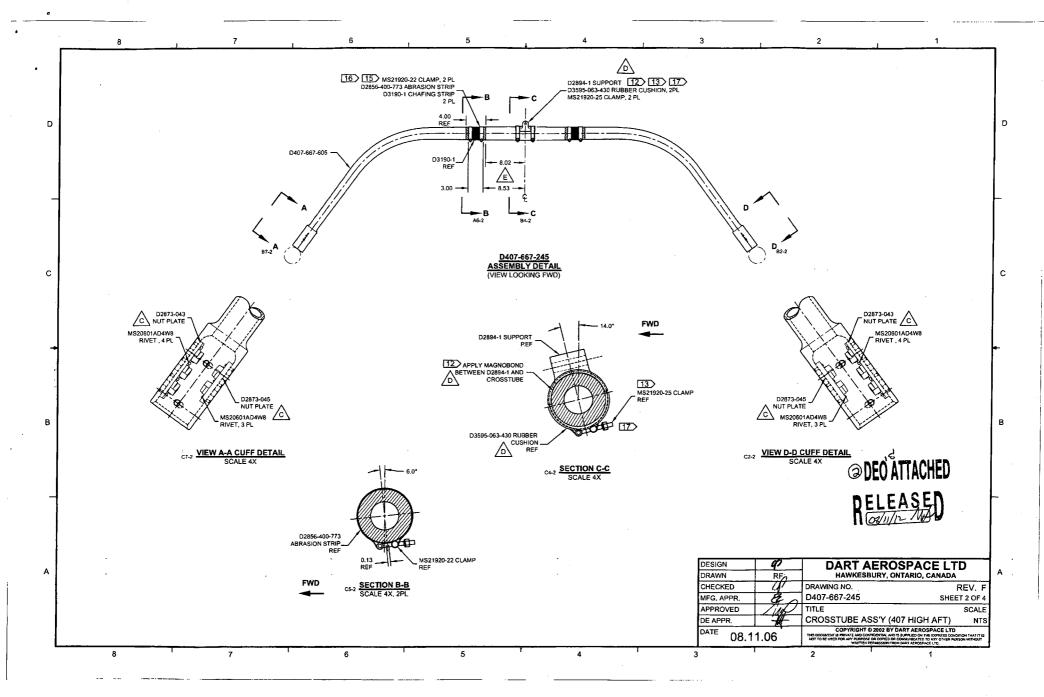
DESIGN	q)	DART AEROSPACE LT	D
DRAWN	RF	HAWKESBURY, ONTARIO, CANADA	
CHECKED	di	DRAWING NO.	REV. F
MFG. APPR.	En	D407-667-245 SHEE	T 1 OF 4
APPROVED	111	TITLE	SCALE
DE APPR.	74	CROSSTUBE ASS'Y (407 HIGH AFT)	NTS
DATE 08.1	1.06	COPYRIGHT © 2002 BY DART AEROSPACE LTD THS DOCUMENT BY PRIVATE AND DOMPHICH HAND IS SUPPLIED ON THE EXPRESS CONSTITUTION TO BE USED FOR ANY PURPOSE OF COPIED OR COMMANDATED TO ANY OTHER PRESS.	

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W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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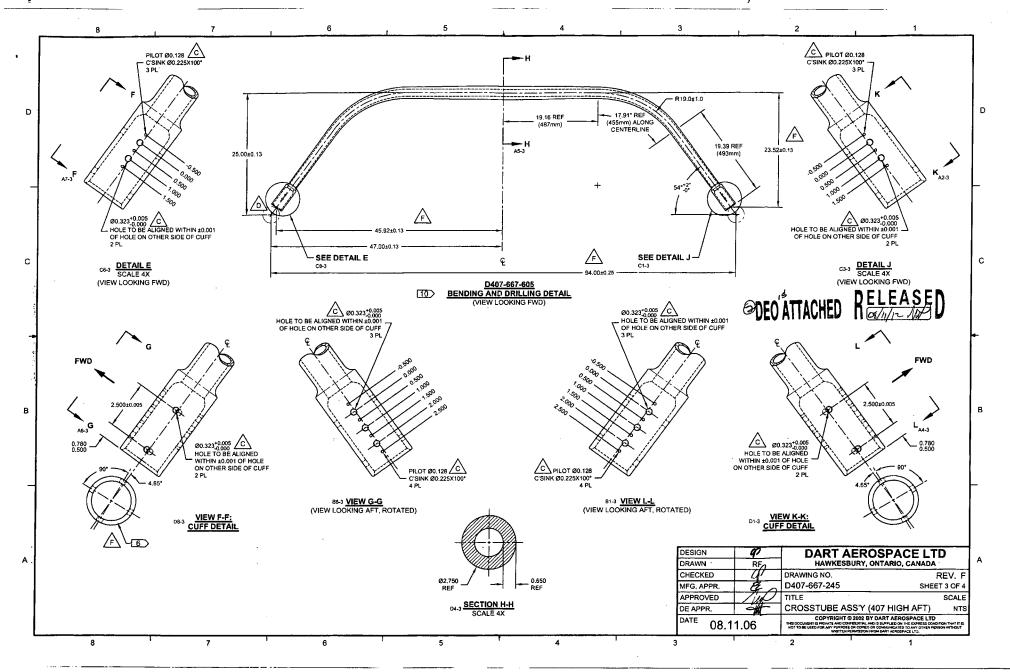
NCR:		WORK ORDER NON-CONFORMANCE (NCR)					
		Description of NC		Corrective Action Section B	Verification	Approval	Approval
DATE	STEP	Description of NC Section A	Initial Action Description Sign & Chief Eng Chief Eng Date		Section C	Chief Eng	QC Inspector



W/O:		WORK ORDER CHANGES					-	
DATE	STEP	PROCEDURE CHANGE	By Date Qty Approval Chief Eng / Prod Mgr					
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Part No:		PAR #:	Fault Category: _	NCR: Yes No	DQA:	Date: _	
	Resolution:		Disposition:	QA: N/C Close	d:	Date:	

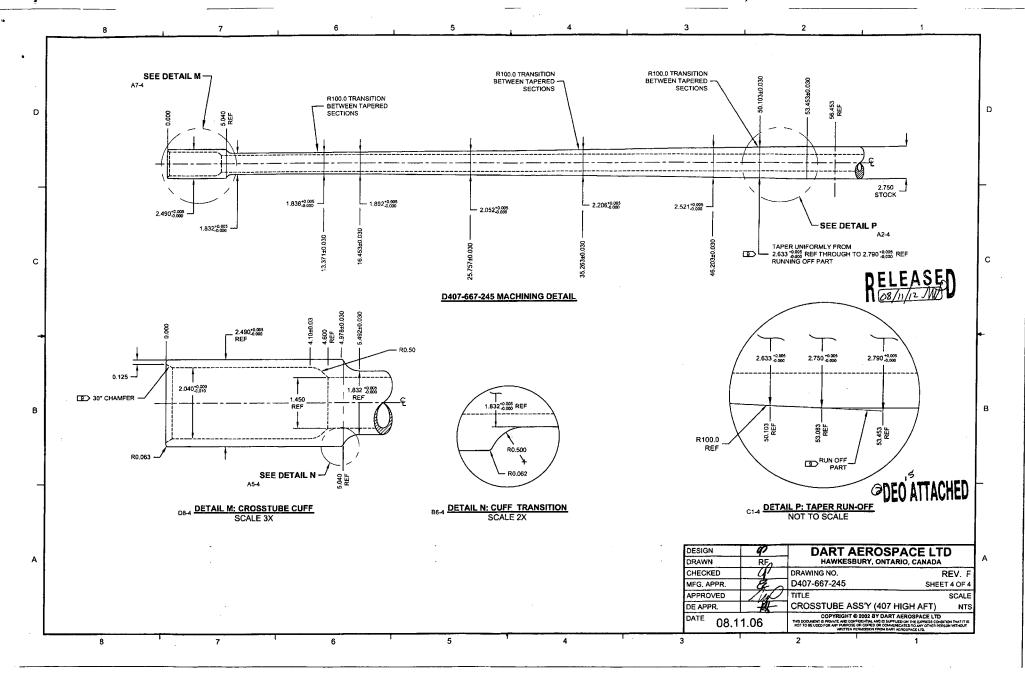
NCR:		WORK ORDER NON-CONFORMANCE (NCR)									
		Description of NC	Corrective Action Section B		Verification	Approval	Approval				
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector			
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DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval .				
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Part No:	PAR #:	Fault Category:	 NCR: Yes No	DQA:	Date:	
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B	,	Verification	Approval	Approval QC Inspector		
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng			
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W/O:		WORK ORDER CHANGES						
DATE	STEP	PROCEDURE CHANGE			Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No:		PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
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NCR:		WORK ORDER NON-CONFORMANCE (NCR)								
		Description of NC		Corrective Action Section B		Verification	Approval	Approval QC Inspector		
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng			
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75662

DRAWING NO.	1		REV. F	DART AEROSPACE LT	D.E.O.	NO.	SHEET NO.	SCALE
D407-667-2	45 / CROSSTUB	E ASSY (407 HIG	H AFT)	ENGINEERING ORDER	D407	-667-245-F-1	SHEET 1 OF 2	NTS
DRAWN	单	CHECKED	9)	MFG. APPR.	APPROVE	140	DE APPR.	
DATE 1	1.04.08	DATE 11.04	.12	DATE 11.04.12	DATE	11.04.12	DATE 11-04-12	

PURPOSE

REMOVED ABRASION STRIP IN FAVOR OF A THIN LAYER OF PROSEAL 890.

CHANGE:

PARTS LIST IS AMENDED AS FOLLOWS:

IS:

Item	Qty 245	Part Number	Description
3	0	D2856-400-773	ABRASION STRIP
3	U	D2856-400-773	ABRASION STRIP

WAS:

3	2	D2856-400-773	ABRASION STRIP

NOTES 2 AND 15, SHEET 1 ARE AMENDED AS FOLLOWS:

IS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1

PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2

MASK UNDERSIDE OF CROSSTUBE AS SHOWN (HATCHED AREA) AND

PAINT OUTSIDE PER DART QSI 005 4.2 REMOVE MASKING AND APPLY CLEAR COAT

15) APPLY A THIN COAT OF PROSEAL 890 ON INSIDE CONCAVE SURFACE OF D3190-1 CHAFING SHIELDS AND LET CURE PER MANUFACTURER'S INSTRUCTIONS. INSTALL PROSEALED D3190-1 CHAFING SHIELDS ONTO CROSSTUBE BY APPLYING A THIN COAT OF PROSEAL 890 ONTO CROSSTUBE. BE SURE TO ELIMINATE ANY AIR GAPS.

WAS:

2) FINISH: CHEMICAL CONVERSION COAT PER DART QSI 005 4.1 PRIME INSIDE AND OUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2

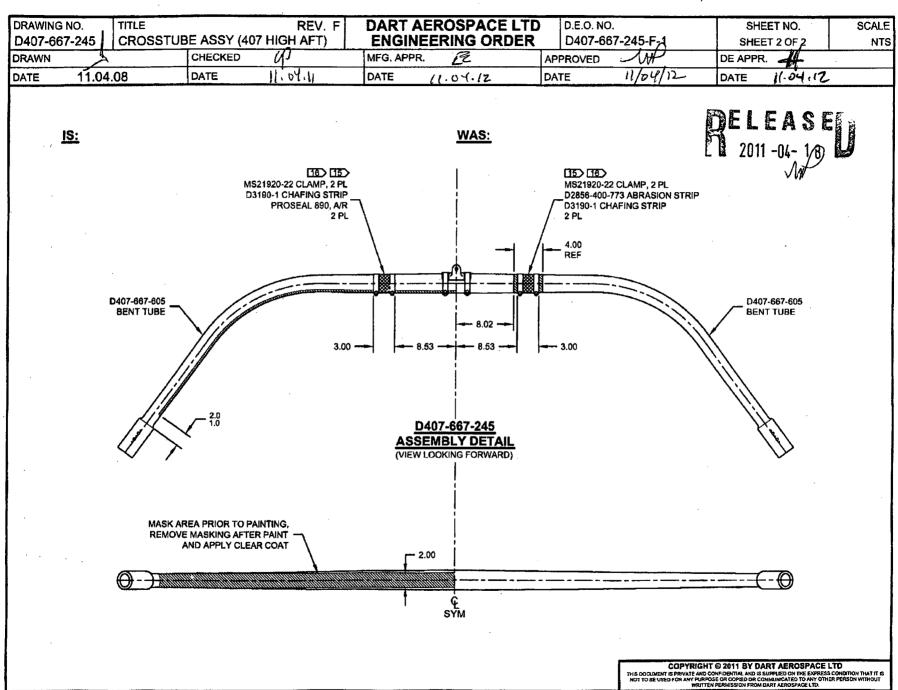
15) INSTALL D2856-400-773 ABRASION STRIP WITH A 0.13 REF GAP ON BOTTOM SIDE OF CROSSTUBE PER QSI 035.



W/O:		WORK ORDER CH	WORK ORDER CHANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Qty	Approval Chief Eng / Prod Mgr	Approval- QC Inspector	
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Part No:		PAR #:	Fault Category:	NCR: Yes No	DQA:	Date:
	Resolution:		Disposition:	QA: N/C Closed	:	Date:

NCR:			WORK ORDE	ER NON-CONFORMANO	CE (NCR)			
		Description of NO		Corrective Action Section B		Verification	Approval	I Approval QC Inspector
DATE S	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	



W/O:		WORK ORDER CHANGES					•
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approvat Chief Eng / Prod Mgr	Approval. QC Inspector
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Part No:		PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
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NCR:			WORK ORDE	ER NON-CONFORMANO	CE (NCR)			Approval QC Inspector
		Description of NC		Corrective Action Section B		Verification	Approval	Approval
DATE STE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector
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DRAWING	NO.	TITLE	<u>. </u>	REV. F	DART AE	ROSPACE LTD	D.E.O.	NO.	SHE	EET NO.	SCALE
D407-66	7-245	CROSST	UBE ASS'Y (4	107 HIGH AFT)	ENGINE	ERING ORDER	D407-	-667-245- F -2	SHE	ET 1 OF	NTS
DRAWN	q	,	CHECKED	ASS	MFG. APPR.	G	APPROVED) WP	DE APPR	- (
DATE	11.09.	07	DATE	11.09.19	DATE	11-09-19	DATE	11.09.19	DATE	11.09.19	

PURPOSE:
REPLACE MAGNOBOND WITH 3M DP460 SCOTCH-WELD EPOXY ADHESIVE

CHANGE:

Item	Qty -245	Part Number	Description
12	A/R	SCOTCH-WELD DP460	EPOXY ADHESIVE, 3M SCOTCH-WELD

WAS:

ı				
	12	A/R	MAGNOBOND 6398	ROCKWELL SPECIFICATION RBO-120-023 ADHESIVE (TEXTRON/BELL SPEC. 299-947-100,
ı				TYPE II, CLASS 2 ADHESIVE)

NOTE 12 & 17, SHEET 1 IS AMENDED AS FOLLOWS:

- 12) INSTALL D2894-1 CENTER SUPPORT USING A 0.04" TO 0.07" THICK LAYER OF SCOTCH-WELD DP460 PER QSI 015. LET CURE FOR 24 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING. PRIOR TO PACKAGING, RE-CHECK TORQUE ON CLAMPS AFTER ADHESIVE HAS CURED FOR 24 HOURS.

WAS:

- 12) INSTALL D2894-1 CENTER SUPPORT USING A 0.03" TO 0.06" THICK LAYER OF MAGNOBOND 6398 PER QSI 015. LET CURE FOR 12 HOURS AFTER INSTALLATION AND PRIOR TO PACKAGING.
- 15) TORQUE CLAMPS 80 TO 100 IN-LB. ENSURE AT LEAST 1.5 THREADS ARE SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



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W/O:		WORK ORDER CHANGE	S				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval- QC Inspector

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Part No:		PAR #:	Fault Category:	NCR: Yes No DQA:	Date:	
	Resolution:		Disposition:	QA: N/C Closed:	Date: _	

NCR:		· · · · · · · · · · · · · · · · · · ·	WORK ORDE	R NON-CONFORMANC	E (NCR)						
		Description of NC		Corrective Action Section B		Verification	Approval	Approval			
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Chief Eng	QC Inspector			
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Change Record

Part Number <u>D407-667-265</u>
Description <u>407 AFF CROSS TUBE</u>

Page _ l of _ l

C	Data	1.5	
Chg.	Date	Ву	Relevant Documents
001	02.06.04		BOR DR- D206-667 REV. E
002	03.05.21	DS.	PER DR-0706-667 Rev-F
			The proof of the proof
003	05.09.09	KS	DR-D206-667 Rev. H (asm comptains)
			DE DOOG BOI FOU. H (CONTINUE)
004	07.92.14	ΔA	De Droy 1/1 Cont him and 1
007		1)	DR-D206-667 Rev. L/MDL-D206-667 Rev. E
005	07.11.07	A	70 5 6 1 1 1 7 7
005	01,11.01	- 7)	DR-D206-667 Rev. F (D2894 Rev. C)
00/	10.00	-10	
006	08.08/18	757	D407-667-245 Pes. E (ECN 1225)
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007	11.04. A	**	DS19550 (W.A. DED-D407-667-F-1 (ECN 11-551)
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		. ^	(ECN 11-551)
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TENTION —	1 1 24	ACUREN JOB NO.	188-12-60058	
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:OJECT	F.P.I.	on cress Tul		
M(S) EXAMINED	<u> </u>	B)		
.W(O) EXAMINED				
)B DESCRIPTION	PROCEDURE NO. LTCO.	REV./DATE 7008 TECHNIQUE	NO. LT JULY REV./DATE 2008	
RT N O.	SEE EESULTS	MATERIAL STEEL / Aci	My July THICKNESS Julian	
:OPE	WET PLOUNESCENT	LIOUD PENETRAT	EXAMINA TOUR	
	00 100 %	F EXTERNAL SUR	FACE	
EST DETAILS				
ETHOD	FLUORESCENT Q VISIB	BLE WATER WASH	3 SOLVENT REMOVABLE 12 POST EMULSIFIED	
	ASSAFLICY LG7 MINIMUM DWELL TIME 45	BLACK LIGHT S/N 16459	Q OUTPUT > 1000 µ W/cm ²	
ENETRANT REMOVES		10 Min. Lighting Equip. U Flashligh 10 Min. Other ムねらいひ	Ties and the second sec	
EVELOPER S	KD 52 MINIMUM DWELL TIME	10 Min. Light Meter S/N / 0	98866 CALDUEDATE 07/27	
EVELOPER TYPE	Mon Aqueous La Aqueous C	3 DRY	J. 10.	
EST SURFACE JRFACE CONDITION	LI AS GROUND LI AS WELDER	MACHINED 3 SHOT	BLASTED CLEAN BARE METAL	
			50°F to 52°C/125°F □ > 52°C/125°F	
ESULTS-	(D Metric D Imperial)			
4 - 3.00000000000000000000000000000000000	76252 75662 75662 75667 76933 76933 76254	X - RESCOUND 1 RESCOUND LEGROUND SITHIJOS	1 Time	
ar all descriptions, commer	s and expressions of opinion reflect the opinions or observations of	Acureu Group Inc. based on information and assumptions supp	al beyond the performance of the requested services. It is expressly understood hed by the owner/operator and are not intended not can they be construed as	
va or other information pre	Acuren Group in , is not assuming any responsibilities of the own valual by Acuren Group Inc. In no event shall Acuren Group Inc.'s I	artiperator and the ownerloperator retains complete responsible inbility in respect of the services referred to herein exceed the ar-	dits for the engineering, meanhacure, repair such the decisions as a result of the nount paid for such services.	
		, xere is a funder similar circumstances by others performing such	h services in the same or similar locality. No other warranty, expressed or	
ndied is made er mienden. SIGNATURES	S AN ARTS ADDITION			
LIENT REPRESENT	ATIVE Andrew Sheldon		DTR# E62914	
ECHNICIAN (SIGNAT	PRINT	SIGNATURE	REPORT	
JAME (PRINT):	AUE THAIST		REVIEWED BY: NAME INITIALS	
and the same of th	1º TECHNICIAN	2's TECHNICIAN		
	OGS3 LEVEL SNT LEVEL OGSB REG. NO	CGSB LEVEL SNT LEVEL CGSB REG, NO		